Patent 5,579,126 (*Otsuka*). Claim 8 was rejected under 35 U.S.C. § 103(a) as being obvious

from *Kikuchi et al.* in view of *Otsuka*, and further in view of U.S. Patent 5,644,404 (*Hashimoto*

et al.). Claims 13-17, and 20 were rejected under 35 U.S.C. § 103(a) as being obvious from

Japanese Patent Number 9-18498 (*Kosaka '498*, using *Kosaka* as an English translation) in view

of *Kikuchi et al.*

First, cancellation of Claims 6, 13-16, and 20 renders the rejections of those

claims moot.

The aspect of the present invention set forth in Claim 1 is directed to a data

communication system. The system includes a connector, an operation input unit, a data

transmitter, and a notification unit. The connector connects the system to a network, which is

connectable to a plurality of data processing terminals. The operation input unit receives a

manual designation inputted by an operator. The data transmitter transmits data based on the

designation inputted by the operation input unit. The data is transmitted to an external data

communication terminal via a line that does not include the connector. The notification unit

notifies a data processing terminal, via the connector, of transmission result information

representing a data transmission performed by the data transmitter based on the designation

inputted by the operation input unit and the data transmitted by the data transmitter. The

notification unit notifies the data processing terminal of the transmission result information in

accordance with a change in state of the data communication system, and also notifies the data

processing terminal of the transmission result information related to the data transmission upon

completion of the data transmission performed by the data transmitter. In a case where user

information is inputted by the operation input unit with an address of the external data

14

communication terminal, the notification unit notifies a data processing terminal corresponding the user information of the transmission result information.

An important feature of Claim 1 is that the data communication system notifies a data processing terminal, via the connector, of transmission result information representing a data transmission performed by the data transmitter based on the designation inputted by the operation input unit and the data transmitted by the data transmitter.

Kosaka relates to a data communication apparatus that manages information indicating that data has reached its destination. *Kosaka* discloses notifying the transmission-management information to the client in steps S40 and S42 of Figure 8. However, the transmission-management information, as depicted in Figure 3, does not contain the transmitted data, namely, the document that was transmitted in step S38. Accordingly, *Kosaka* does not disclose that the data processing terminal is notified of the transmission result information and the data transmitted by the data transmitter.

Accordingly, Applicant submits that Claim 1 is not anticipated by *Kosaka*, and respectfully requests withdrawal of the rejection under 35 U.S.C. § 102(e). Independent Claims 18, 19 and 21-23 include a similar notification feature as discussed above in connection with Claim 1, and are believed to be patentable for at least the same reasons.

The aspect of the present invention set forth in Claim 7 is directed to a data communication system. The system includes a connector, an operation input unit, a designation unit, a data transmitter, a notification unit, a determination unit, and a controller. The connector connects the system to a network, which is connectable to a plurality of data processing terminals. The operation input unit receives a manual designation manually inputted by an

15

operator, and the designation unit designates an ID, representing a user's data processing terminal on the network, from the inputted manual designation. The data transmitter transmits data based on a designation inputted by the operation input unit. The data is transmitted to an external data communication terminal via a line that does not include the connector. The notification unit notifies the user's data processing terminal, via the connector, of information representing a data transmission performed by the data transmitter based on the inputted designation and the data transmitted by the data transmitter. The determination unit determines whether or not the ID is designated by the designation unit, and the controller controls the notification unit in accordance with a determination result of the determination unit. The notification unit notifies the user's data processing terminal of information related to the data transmission upon completion of the data transmission performed by the data transmitter.

An important feature of Claim 7 is that the data communication system notifies the user's data processing terminal, via the connector, of information representing a data transmission performed by the data transmitter based on the inputted designation <u>and the data transmitted by the data transmitter</u>.

As discussed above with respect to Claim 1, *Kosaka* does not disclose that the data processing terminal is notified of information representing a data transmission <u>and the data transmitted by the data transmitter</u>. Accordingly, Applicant submits that Claim 7 is not anticipated by *Kosaka*, and respectfully requests withdrawal of the rejection under 35 U.S.C. § 102(e).

The Office Action correctly states that *Kikuchi et al.* fails to particularly teach notifying the data processing terminal of information related to the data transmission upon

16

completion of the data transmission performed by the data transmitter. The Office Action points to *Otsuka* to remedy the deficiencies of *Kikuchi et al.*

Otsuka apparently relates to a facsimile apparatus which is linked to a local area network including two or more personal computers and operates on the local area network as a facsimile server. *Otsuka* discloses producing a list of transmission result records (step 110) which is transmitted in step 203. The list of transmission result records (FIG. 3D) includes the file number, the number of pages, the date/time, the required time, the charge amount, the destination station list, the transmission mode, the transmission result, and the deletion flag. However, nothing has been found in *Otsuka* that teaches or discloses the data communication system notifying the user's data processing terminal, via the connector, of information representing a data transmission performed by the data transmitter based on the inputted designation and the data transmitted by the data transmitter.

Accordingly, Applicant submits that Claim 7 is patentable over *Kikuchi et al.* in view of *Otsuka*, and respectfully requests withdrawal of the rejection under 35 U.S.C. § 103(a).

The aspect of the present invention set forth in Claim 17 is directed to a method of controlling a system that includes a data communication system for performing data communication with a destination and a data processing terminal for controlling the data communication system, whereby the data communication system is connected to the data processing terminal via a network that is connectable to a plurality of data processing terminals. At the data communication system the method comprises the steps of inputting a designation manually entered by an operator using an operation input unit. Designating an ID based on the

17

manual designation inputted using the operation input unit, performing data communication with

an external data communication terminal in accordance with a designation inputted using the

operation input unit, and notifying the data processing terminal corresponding to the designated

ID, via a connector connecting the data communication system and the data processing terminal,

of communication result information representing the data communication with the external data

communication terminal based on the inputted designation and the data transmitted by the data

communication. At the data processing terminal, the method comprises the steps of instructing

the data communication system to communicate with a destination, receiving communication

result information notified by the data communication system in the notifying step, and

independently storing the communication result information related to the data communication

based on an instruction in the instructing step and communication result information received

from the data communication system in the receiving step. The notification step notifies the data

processing terminal of the communication result information related to the data communication

upon completion of the data transmission performed by the data communication system. The

notification step includes notifying, in a case where user information is inputted using the

operation input unit with an address of the external data communication terminal, a data

processing terminal corresponding the user information of the communication result information.

Kosaka '498 (using *Kosaka* as an English translation) does not disclose that the

data processing terminal is notified of the of communication result information representing the

data communication with the external data communication terminal based on the inputted

designation <u>and the data transmitted by the data communication</u>. *Kikuchi et al.* is not seen to

18

remedy the deficiencies of *Kosaka '498*, with regard to the data processing terminal is notified of

the of communication result information representing the data communication with the external

data communication terminal based on the inputted designation and the data transmitted by the

data communication. Accordingly, Applicant submits that Claim 17 is patentable over *Kosaka*

'498 (using *Kosaka* as an English translation) in view of *Kikuchi et al.,* and respectfully requests

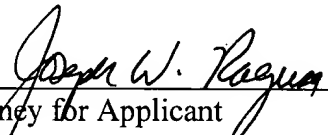withdrawal of the rejection under 35 U.S.C. § 103(a).

New independent Claims 24, 27, and 28 include a similar notification feature

as discussed above in connection with Claim 1, and are believed to be patentable for at least the

same reasons.

The other claims in this application are each dependent from one or another of

the independent claims discussed above and are therefore believed patentable for the same

reasons. Since each dependent claim is also deemed to define an additional aspect of the

invention, however, the individual reconsideration of the patentability of each on its own merits

is respectfully requested.

In view of the foregoing amendments and remarks, Applicant respectfully

request favorable reconsideration and early passage to issue of the present application.

Applicant's undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our below listed address.

Respectfully submitted,

_____
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VERSION WITH MARKINGS TO SHOW CHANGES MADE TO CLAIMS

1. (Amended Seven Times) A data communication system comprising:

a connector, adapted to connect a network that is connectable to a plurality of

data processing terminals to said data communication system;

an operation input unit, adapted to receive a manual designation manually **RECEIVED**

inputted by an operator;

SEP 1 6 2002

Technology Center 2600

a data transmitter, adapted to transmit data based on the designation inputted

by said operation input unit, the data being transmitted to an external data communication

terminal via a line that does not include said connector; and

a notification unit, adapted to notify a data processing terminal, via said

connector, of transmission result information representing a data transmission performed by said

data transmitter based on the designation inputted by said operation input unit and the data

transmitted by said data transmitter,

wherein said notification unit notifies the data processing terminal of the

transmission result information in accordance with a change in state of said data communication

system,

wherein said notification unit notifies the data processing terminal of the

transmission result information related to the data transmission upon completion of the data

transmission performed by said data transmitter, and

wherein said notification unit notifies, in a case where user information is

inputted by said operation input unit with an address of the external data communication

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terminal, a data processing terminal corresponding the user information of the transmission result information.

7. (Amended Six Times) A data communication system comprising:

a connector, adapted to connect a network that is connectable to a plurality of data processing terminals to said data communication system;

an operation input unit, adapted to receive a manual designation manually inputted by an operator, said operation input unit being a part of said data communication system;

a designation unit, adapted to designate an ID, representing a user's data processing terminal on the network connected by said connector, from the manual designation inputted by way of an operation of said operation input unit;

a data transmitter, adapted to transmit data based on a [destination] designation inputted by said operation input unit, the data being transmitted to an external data communication terminal via a line that does not include said connector;

a notification unit, adapted to notify the user's data processing terminal on the network connected by said connector corresponding to the ID designated by said designation unit, via said connector, of information representing a data transmission performed by said data transmitter based on the [destination] designation inputted by said operation input unit and the data transmitted by said data transmitter;

a determination unit, adapted to determine whether or not the ID is designated by said designation unit; and

a controller, adapted to control said notification unit in accordance with a

determination result of said determination unit,

wherein said notification unit notifies the user's data processing terminal of

information related to the data transmission upon completion of the data transmission performed

by said data transmitter.

17. (Amended Seven Times) A method of controlling a system that includes a

data communication system for performing data communication with a destination and a data

processing terminal for controlling the data communication system, the data communication

system being connected to the data processing terminal via a network that is connectable to a

plurality of data processing terminals, said method comprising the steps of:

at the data communication system:

inputting a designation manually entered by an operator using an

operation input unit;

designating an ID based on the manual designation inputted using the

operation input unit;

performing data communication with an external data communication

terminal in accordance with a [destination] <u>designation</u> inputted using the operation input unit;

and

notifying the data processing terminal corresponding to the designated

ID, via a connector connecting the data communication system and the data processing terminal,

of communication result information representing the data communication with the external data

communication terminal based on the inputted [destination] <u>designation and the data transmitted</u>

<u>by said data communication</u>, and

at the data processing terminal:

instructing the data communication system to communicate with a

destination;

receiving communication result information notified by the data

communication system in said notifying step; and

independently storing the communication result information related to

the data communication based on an instruction in said instructing step and communication result

information received from the data communication system in said receiving step,

wherein said notification step notifies the data processing terminal of the

communication result information related to the data communication upon completion of the data

transmission performed by the data communication system, and

wherein said notification step includes notifying, in a case where user

information is inputted using the operation input unit with an address of the external data

communication terminal, a data processing terminal corresponding the user information of the

communication result information.

18. (Amended Seven Times) A computer-readable storage medium storing a

program for implementing a method for controlling a data communication system connected to a

network that is connectable to a plurality of data processing terminals via a connector, the

program comprising:

program code for an input step of receiving a designation manually inputted by

an operator using an operation unit;

program code for a transmission step of transmitting data based on the

designation manually inputted in said input step, the data being transmitted to an external data

communication terminal via a line that does not include the connector; and

program code for a notification step of notifying a data processing terminal, via

the connector, of transmission result information representing a data communication performed

in the transmission step based on the designation manually inputted in the input step <u>and the data</u>

<u>transmitted by said transmission step</u> and in accordance with a change in state of the data

communication system,

wherein the notification step notifies the data processing terminal of the

transmission result information related to the data transmission upon completion of the data

transmission performed in the transmission step, and

wherein said notification step includes notifying, in a case where user

information is inputted using the operation input unit with an address of the external data

communication terminal, a data processing terminal corresponding the user information of the

transmission result information.

19. (Amended Seven Times) A computer-readable storage medium storing a

program for implementing a method for controlling a data communication system connected to a

network that is connectable to a plurality of data processing terminals via a connector, the

program comprising:

program code for an input step of receiving a designation manually inputted by an operator using an operation unit that is a part of the data communication system;

program code for a designation step of designating an ID, representing a user's data processing terminal on the network connected by the connector, from the manually inputted designation;

program code for a transmission step of transmitting data based on a [destination] designation manually inputted in the input step using the operation input unit, the data being transmitted to an external data communication terminal via a line that does not include the connector;

program code for a notification step of notifying the user's data processing terminal on the network connected by the connector corresponding to the designated ID, via the connector, of information representing a data communication performed in the transmission step based on the [destination] designation manually inputted in the input step and the data transmitted by said transmission step;

program code for a determination step of determining whether the ID is designated in the designation step; and

program code for a control step of controlling the notification step in accordance with a determination result of the determination step,

wherein the notification step notifies the user's data processing terminal of information related to a data transmission upon completion of the data transmission performed in the transmission step.

21. (Amended Four Times) A data communication system that communicates

with an external device via a transmission path, and that communicates with a data processing

terminal, said system comprising:

a signal path through which said data communication system communicates

with the data processing terminal, said signal path being a path different from the transmission

path;

an input section through which an operator manually inputs a designation to

the data communication system;

a transmitter that, based upon the manually inputted designation, transmits data

through the transmission path to the external device; and

a notifier that, because of a change in state of said data communication system,

notifies the data processing terminal through said signal path of transmission result information

corresponding to the data transmission by said transmitter based upon the manually inputted

designation and the data transmitted by said transmitter,

wherein said notifier notifies the data processing terminal of the transmission

result information related to the data transmission upon completion of the data transmission

performed by said transmitter, and

wherein said notifier notifies, in a case where user information is inputted by

said input unit with an address of the external device, a data processing terminal corresponding

the user information of the transmission result information.

22. (Amended Four Times) A method of controlling a data communication

system that communicates with an external device and with a data processing terminal, said

method comprising the steps of:

manually inputting a designation to the data communication system;

transmitting data to the external device via a transmission path, based upon the

manually inputted designation, said transmitting step producing transmission result information;

and

notifying, as a consequence of a change in state of the data communication

system and via a signal path that does not correspond to the transmission path, the data

processing terminal of the transmission result information and the data transmitted by said

transmitting step,

wherein said notifying step notifies the data processing terminal of the

transmission result information related to the data transmission upon completion of the data

transmission performed in said transmitting step, and

wherein said notifying step includes notifying, in a case where user information

is inputted in said inputting step with an address of the external device, a data processing

terminal corresponding the user information of the transmission result information.

23. (Amended Four Times) A computer-readable storage medium storing a

program for implementing a method for controlling a data communication system that

communicates with an external device and a data processing terminal, the program comprising:

code for an input step of inputting a manual designation to the data

communication system;

code for a transmission step of transmitting data to the external device via a

transmission path, based upon the inputted manual designation, the transmitting step producing

transmission result information; and

code for a notification step of notifying, as a consequence of a change in state

of the data communication system and via a signal path that is not the transmission path, the data

processing terminal of the transmission result information <u>and the data transmitted by said</u>

<u>transmission step</u>,

wherein the notification step includes notifying the data processing terminal of

the transmission result information related to the data transmission upon completion of the data

transmission performed in the transmission step, and

wherein the notification step includes notifying, in a case where user

information is inputted in the input step with an address of the external device, a data processing

terminal corresponding the user information of the transmission result information.